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Method Statement for Dewatering

By Noel Mades | Posted on February 15, 2014 | In Method Statements | 8 Comments

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There are cases that the excavation or any underground works can not proceed because of the water table is at high level or almost on the ground level.

In this case we have underground water tank to be constructed, we found out that the water table just few meters beneath the ground surface therefore dewatering should have to be undertaken by us.

In the case of high-rise buildings, we expect that the foundations of those buildings are deep and we may expect that water beneath at this type of building is unavoidable. Dewatering equipment would have to be enough in size of pipes, machines, pumps etc. in order to cater the huge volumes of water to withdraw.

Especially if the foundation type is mat foundation for high-rise building, it is necessary that dewatering shall be done before and during underground works.

Here is the method statement for dewatering works.

1. Title

Method Statement for dewatering works

2. Purpose and scope

1. The purpose of this method statement is to explain the proper procedure on how to do the dewatering system without any safety violations within our project. The works shall be done as per specification and approved drawing.

Read also: [Method Statement for Precast Boundary Wall Works](#)

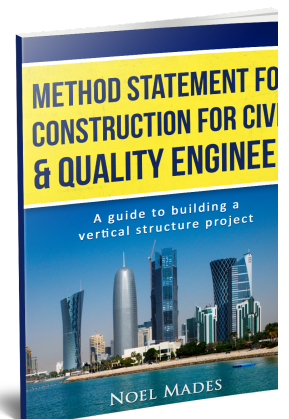
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3. Work procedure

1. Initial preparation

- Protect structure, prepare and adjust to the site from damage caused by settlement and hazards created by dewatering.
- Any closing of roads, streets, or facilities shall be with permission from authority has jurisdiction and then provide alternative access.

2. Installation of dewatering pipe

- The header pipe shall be connected to well points placed at 1 meter centers with sufficient depth to ensure that lowering of the water table shall be carried out from a level not less than 1 meter below the excavation bottom.



- Pre-drilling will be carried out prior to installation of the well point, followed by high-pressure water jetting, to flush out sand and create mini well.
- Provide extra pump encase of breakdown may happen, it can be replaced immediately and without interruption of dewatering.
- A filter media of 3/16 inches (3 – 5 mm) screened black sand shall be inserted around the 3/4 depth of the wells to act as barrier against fines and prevent choking of well points.
- Operate the dewatering system continuously 24 hours a day until drain and structures have been constructed to fill material and until written by authorization to cease dewatering.
- All the header pipes will be connected to discharge pipe running over land to the approved area by authorities jurisdiction.
- Dispose the water removed in a manner to avoid endangering public health, environment, and neighboring property.



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- For safety purpose, provide safety barrier along the perimeter of the excavated area to prevent fall hazards.

Read also: [Method Statement for Anti-termite Treatment](#)

4. Safety

1. All works shall comply with the safety procedure or instruction as set out in project safety plan and municipality rules and regulations.
2. Basic Personal Protective Equipment (PPE) shall be worn by all staff or laborers.
3. All operatives shall be inducted before entering the site.
4. Tool box talk shall be conducted before the activity.

5. Equipments and Tools

1. 1 no. of 6" Centrifugal Vacuum assisted pumps
2. 8' Header pipes approximately equal to 120 linear meter with fittings.
3. 3000 gallon water tank
4. 1000 gallon settlement tank
- Rotary auger drilling machine
- 6 meter pipes as well points 2' diameter
- High pressure water jetting pump
- 10" flexible hose for discharge

Materials and References

- 1 Approved Shop Drawing or Sketch



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About the Author



NOEL

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Hi! Welcome to my blog. My name is Noel Mades and I'm the author of [qualityengineersguide.com](http://www.qualityengineersguide.com). I am a Civil Engineer by profession but I've



specialized and taken the journey in the field of Quality Engineering. I've worked as a Quality Engineer in the well-known companies in the United Arab Emirates for almost seven years.

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By Noel Mades

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Jahangeer Mohammed May 14, 2016

Hi Noel, can you please help me with the method statement and risk assessment how to follow safety procedures for dewatering in Manhole with underground utilities?

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REPLY



Noel Mades May 14, 2016

Author

It is really difficult to figure out what are the potential hazards that we could consider. You better send to me the drawing and photos of the actual situation of the site if you can.

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REPLY



Alex February 26, 2016

Engr. Noel, Can you discuss further how to terminate dewatering pipes. Thanks.

Alex

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REPLY



Noel Mades February 27, 2016

In the case of the method statement above, we have just pulled out the pipes after casting of the water tank wall and backfilled almost two third of the height of tank. But in the case of our project in Dubai, that's different type of shutting off the Dewatering System.

[View Comment](#)

REPLY



Ibn Shaakir February 16, 2016

Sir Noel, at which stage of construction a building we can stop the dewatering process? Please, share also the Method of Statements for this. Thanks a lot.

[View Comment](#)

REPLY

Noel Mades February 16, 2016



We had a project in Dubai, it consists of 9 buildings in one common basement parking. It was a long and wide raft foundation. I remember we stopped the dewatering when we completed the casting of the raft and when we completed the casting of 3.5 meters retaining wall along the perimeter of the project. I'll publish that ebook soon. Just watch for it.

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REPLY



Adnan Hussain November 21, 2015

Would you please share the ITP of Dewatering.

[View Comment](#)

REPLY



Noel Mades November 21, 2015

I've replied to your email.

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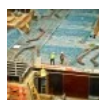
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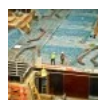
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